

Amey Agarwal

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Focus Resume

OBJECTIVE

Aspiring Computational Astrobiologist and Bioinformatician working on solving fundamental research questions in the field of Biology and Space Biology using Computer Science.

EDUCATION

- School of Biological Sciences, Georgia Institute of Technology (Georgia Tech)** [🌐] 2025 - 2027
M.S. in Bioinformatics
Atlanta, Georgia
 - Williams Lab
 - Collaborating online with NASA OSDR GeneLab AIML Analysis Working Group (AWG)
- Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology (SPIT)** [🌐] 2021 - 2025
B.Tech Computer Science & Engineering (Artificial Intelligence and Machine Learning)
Andheri, Mumbai
 - GPA : 9.15 & Best Outgoing Student
 - Class CR & Club Presidency & TA for Prof. Jignesh Sisodia
 - Intl. US Cansat Competition 2024 - PDR Round - World #10th Rank Out of 18 Countries and 75 teams
 - Relevant Courses : Data Structures, Explainable AI, Biology for Engineers and more

PUBLICATIONS

Y=TO BE SUBMITTED, P=PATENT, R=RESEARCH PAPER

More publications are in the process of submission or review, they can be found on <https://ameyagarwal.vercel.app/>

- [R.1] Dr. Prachi Dalvi, et al. (2024). **Multi-Attribute Deep CNN-Based Approach for Detecting Medicinal Plants and their Use for Skin Diseases** in *IEEE Transactions on Artificial Intelligence*. [🌐]
- [R.2] Dr. Prachi Dalvi, et al. (2024). **Enhancing Plant Species Recognition : A Mutli-Attribute Deep Learning Approach** in *Springer: International Conference on Intelligent Computing and Big Data Analytics, 2024, (ICICBDA-2024)*. [🌐]
- [P.1] Dr. Dhananjay Kalbande, Amey Agarwal, et al. (2024). **A system for detecting micronutrient deficiencies using facial markings** with German patent. [🌐]

SKILL

- Research** : Analytical Reasoning, Data Collection, Communication
- Data Science & Machine Learning**: PyMol, Deep Learning
- Programming** : C, Java, Python, JavaScript, Elixir, GDScript
- Website Development**: ReactJs, NodeJs, Express, Flask, FastAPI, Django, MongoDB
- Communication Skills**: Presentation, Oratory, Elocution
- OS Experience**: Mac OS X, Windows, Ubuntu(Linux)

SKILL PROJECTS

- Band Selection of Hyperspectral Sat. Img. for Land Use Land Classification Project** Engineering Project
Research & Web Development [🌐]
- Diabetic Foot complication detection using AI in Diabetic Foot Care Project** Social Impact
Research
- Sugarcane Disease Detection using Deep Learning Project** Research Internship
Research at Center for Development of Advanced Computing (C-DAC)
- Source Code Plagiarism Checker Project** Engineering Mini-project
Research & Website Development [🌐]

LEADERSHIP

- Club & Team Advisor** September 2024 - August 2025
Astrophysics Club & Team Spriha at SPIT [🌐]
- Team Captain** September 2023 - August 2024
Team Spriha - SPIT College Canister Satellite Team at SPIT [🌐]
- Co-Founder and Club President at SPIT** September 2023
Astrophysics Club SPIT

EMPLOYMENT

- **Humans of Medicare** July 2024 - August 2024
Website Development Consultation and Mock Build
◦ Paid Work: INR 2500 (\$29.72) Remote
- **Centre for Development of Advanced Computing (C-DAC)** January 2024 - July 2024
Research Internship
◦ Deep Learning in Agriculture : Sugarcane Disease Detection using Deep Learning Kharghar, Mumbai
- **Simsol Technologies Pvt. Ltd.** May 2023 - August 2023
Machine Learning Intern
◦ Document Classification using OpenCV
◦ Face Liveliness Detection Remote
- **Diginique Techlabs DivyaSampark** May 2023
Machine Learning Trainee
◦ Basics of Machine Learning and Australia Weather Prediction Remote
- **AIM4U Software Solutions Pvt. Ltd.** May 2023 - September 2023
Machine Learning Intern
◦ Medicinal Plant Classification using Deep Learning with Website Andheri

HACKATHONS

- **Finalist - Smart India Hackathon 2024 - Team Bhagirathi** November, 2024
Premier Nationwide Annual Hackathon in India by Government Of India [🌐]
- **Global Nominee - NASA Space Apps Challenge - Team Enceladus** 29 October, 2024
Online Hackathon by National Aeronautics and Space Administration(NASA) [🌐]
- **Finalist - Top 6 out of 200 - Team Enceladus** 3 August, 2024
Indian Space Research Organization (ISRO) -International Institute of Information Technology Hyderabad (IIIT-H) [🌐]
- **Top 100 out of 8500 applications - Team BuildStream** 26 June, 2024
The DPurpose Foundation [🌐]
- **Top 8 out of 250 teams - Team HireUs - Rs.1000** 3 May, 2024
M&G Global Services Pvt. Ltd. [🌐]
- **1st Place - Team Enceladus** 13 April, 2024
Apogee24 at Birla Institute of Technology and Science, Pilani [🌐]
- **Problem Statement Winner - Team Hello Brothers** 6 February, 2024
DJ INIT.AI Club at DJ-Sanghvi College [🌐]
- **3rd Place - Team Messier81** November 2023
Celesta23 - Indian Institute of Technology Patna [🌐]
- **Top 50 team - Team ClosedAI** 21 April - 23 April, 2023
Amazon [🌐]
- **Aeravat 1.0 | DJ Synergy | SPIT SE Hackathon | YourStory Digital Innovation**

EXTRA-CURRICULAR CERTIFICATIONS

- **IIT Madras NPTEL: Optimization Theory and Algorithms** [🌐] November 2024
- **IIT Kharagpur NPTEL: Deep Learning - Top 5% scorer in course** [🌐] May 2024
- **IIT Guwahati NPTEL: Computer Vision and Image Processing - Top 2% scorer in course** [🌐] May 2024
- **IIT Kharagpur NPTEL: Introduction to Machine Learning - Top 5% scorer in course** [🌐] December 2023
- **Barclays SPIT Cybershala Programme: Cybersecurity course completion held by Barclays** [🌐] December 2023